

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 March 2001 (08.03.2001)

PCT

(10) International Publication Number
WO 01/15664 A2

(51) International Patent Classification⁷: **A61K 9/00**

(21) International Application Number: **PCT/GB00/03328**

(22) International Filing Date: **31 August 2000 (31.08.2000)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
9920558.5 31 August 1999 (31.08.1999) **GB**

(71) Applicants (for all designated States except US): **BRADFORD PARTICLE DESIGN PLC** [GB/GB]; Unit 69 Listerhills Science Park, Campus Road, Bradford BD7 1HR (GB). **BRISTOL-MYERS SQUIBB COMPANY** [US/US]; P.O. Box 4000, Princeton, NJ 08543-4000 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YORK, Peter** [GB/GB]; 47 Parish Ghyll Drive, Ilkley LS29 9PR (GB). **WILKINS, Simon, Anthony** [GB/GB]; 8 Beckbury Street, Farsley, Leeds LS28 5BP (GB). **STOREY,**

Richard, Anthony [GB/GB]; 18 Laurel Way, Chartham, Canterbury, Kent CT4 7TJ (GB). **WALKER, Stephen, Ernest** [GB/GB]; Roundwood Grange, Roundwood Road, Baildon, Shipley, West Yorkshire BD17 7JX (GB). **HARLAND, Ronald, Scott** [US/US]; 1 Harlow Court, Yardley, PA 19067 (US).

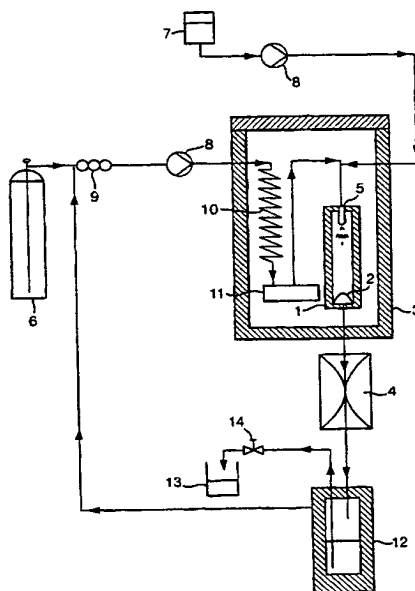
(74) Agents: **BREWSTER, Andrea, Ruth et al.**; Greaves Brewster, 24A Woodborough Road, Winscombe, North Somerset BS25 1AD (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **COFORMULATION METHODS AND THEIR PRODUCTS**



(57) Abstract: A coformulation of an active (preferably pharmaceutically active, for instance a COX-2 enzyme inhibitor) substance and an oligomeric or polymeric excipient, containing at least 10 % of the active, between 80 and 100 % of which is amorphous. The amorphous phase is stable, with respect to the crystalline phase(s), for at least three months after its preparation when stored at between 0 and 10 °C. The invention also provides processes, preferably involving SEDSTM particle formation, for preparing such a coformulation.

WO 01/15664 A2

WO 01/15664 A2



Published:

— Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.